

**NAME:** YAHUAN LOU, Ph.D.

**DATE:** June 7, 2017

**PRESENT TITLE:** Professor of Immunology

**ADDRESS:** Department of Diagnostic and Biomedical Sciences  
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**CITIZENSHIP:** U.S.A.

**EDUCATION AND TRAINING:**

03/1978-02/1982: B.S., March '82, Marine Biology, Zhejiang College of Oceanography, Zhejiang, China

09/1983-09/1984: Graduate student, Marine Biology, Shandong College of Oceanography, Qintao, China.

10/1984-03/1985: Research student, Comparative endocrinology, Hokkaido University, Hokkaido Japan.

04/1985-03/1990: Ph.D. in Biology, March '90, Graduate School, Hokkaido University, Hokkaido, Japan.

04/1990-11/1990: Postdoctoral fellow in Molecular Biology, Div. Developmental Biology, National Institute for Basic Biology, Okazaki, Japan

11/1990-06/1991: Research Associate in Immunology, Department of Pathology, Washington University School of Medicine, St. Louis, MO.

07/1991-10/1993: Research Associate in Immunology, Department of Pathology, University of Virginia School of Medicine, Charlottesville, VA

**ACADEMIC APPOINTMENT:**

- 09/01/2006 - present: Professor, Diagnostic Science Department, School of Dentistry, University of Texas Health Science Center at Houston, Houston, TX.
- 01/01/2011 – present: Adjunct Professor, Division of Nephrology, Baylor College of Medicine, Houston, TX.
- 07/01/2004 –03/31/2008: Adjunct Associate Professor, Division of Nephrology, Baylor College of Medicine, Houston, TX. (BCM#146096)
- 02/01/2003 – present: Adjunct Professor / Associate Professor, Internal Medicine, School of Medicine, University of Texas Health Science Center at Houston, Houston, TX.
- 09/01/2003 – 08/31/2006: Associate Professor with tenure, Diagnostic Science Department, Dental Branch, University of Texas Health Science Center at Houston, Houston, TX.
- 02/15/2003 – present: Honored professorship, Ocean University of Zhejiang, China
- 02/02/2000-08/31/2003: Associate Professor, Basic Sciences Department, Dental Branch, University of Texas Health Science Center at Houston, Houston, TX.
- 02/05/2000 – present: Member, Cell Biology Program and Immunology Program, Graduate School of Biomedical Sciences, University of Texas at Houston, Houston, TX.
- 11/1993 – 12/31/1999: Assistant Professor in research, Department of Pathology, School of Medicine, University of Virginia, Charlottesville, VA.

**PROFESSIONAL ORGANIZATIONS**

- 1985-1989: Japanese Society of Aquatic Biology
- 1987-1992: Pacific Oceania Society of Comparative Endocrinology
- 1989-1991: American Association for Zoology
- 1990-1994: American Society for Reproductive Immunology
- 1999-present: American Association of Immunologist
- 2006-present American Dental Education Association

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2006-present: International Society of Nephrology

### **AWARDS AND HONORS**

04/1985-03/1990. Monbusho Scholarship, Ministry of Education, Culture and Science, Japan.

04/1990-11/1990: Fellow, Naito Foundation, Japan.

06/1992: Finalist for Young Investigator Award, IX Ovarian Workshop, USA

05/1993-10/1998: Fellow, Mellon Foundation, USA,

2003: Dean's Excellence in Teaching, Dental Branch, University of Texas Health Science Center at Houston.

2005: Finalist for John Freeman Award

2009: Nominee for President's Scholars Award in Research UT-HSC at Houston

### **EDITORIAL POSITION**

1. Editorial Board Member, Open Autoimmunity Journal, 2008-2012

### **REVIEWER FOR JOURNALS:**

1. Journal of Clinical Investigation
2. Journal of Pathology
3. Journal of Immunology
4. Journal of Leukocyte Biology
5. British Journal of Pharmacology
6. American Journal of Reproductive Immunology
7. American Journal of Pathology
8. Archivum Immunologiae et Therapiae Experimentalis
9. American Journal of Kidney Disease
10. Journal of American Society of Nephrology
11. Nephrology Dialysis Transplantation

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12. Kidney International
13. Pediatric Nephrology
14. Reproduction
15. Reproduction, fertility and development
16. Molecular Biology Report
17. Medical Science Monitor
18. Clinical and Developmental Immunology
19. BioMed. Research International
20. Molecular Oncology
21. PLoS One
22. Cellular and Molecular Life Science
23. Other on-line journals

**GRANT CONSULTANTSHIPS:**

1. NIH CSR, USU High Priority Research Panel (2016)
2. NIH NICHD Special Emphasis Panel, P01 Ovulation in mammals (2013)
3. NIH NICHD Special Emphasis Panel, P01 Ovulation in mammals (2012)
4. NIH NICHD Grand Opportunities (GO) RFA, invited grant reviewer (08-04 to 05, 2009)
5. Wellcome Trust, UK (2007), ad hoc reviewer
6. NIH Study section, NIDDK Special Emphasis Panel (2005)
7. Medical Research Council (MRC), UK (2004)
8. Health Department of Scotland, UK (2004 and 2005)
9. Israel National Science Foundation (2003)
10. Member, Search Committee, Kroege Research Scholarship, Houston
11. Maryland Technology Development Corporation (TEDCO) (2009)

**NATIONAL ORGANIZATION:**

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1. Member, National Board Exam Test Construction Committee (Part I, Micro – Pathology) (2006-2011), ADA

**UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON COMMITTEES:**

1. 03/2013: Reviewer for K14 grant, NIH CCST
2. 09/2012- Member and sub-committee chair, Animal Welfare Committee UTHSC
3. 09/2006-09/2009: Member and sub-committee chair, Animal Welfare Committee UTHSC
4. 02/01/2007-01/31/2010: Member, Committee of Engine of Innovation, CCST
5. 01/15/2007: Reviewer for K14 grant, NIH CCST
6. 07/01/2000-2006: Member, Institutional Bio-safety Committee
7. 09/01/2002-08/31/2006: Member, Scientific Merit Review Committee
8. 07/2003: Reviewer for mock NIH grant, Training Course for NIH grant application

**UNIVERSITY OF TEXAS HOUSTON HEALTH SCIENCE CENTER SCHOOL OF DENTISTRY COMMITTEES:**

1. 2016- Member, Outcome Assessment Committee
2. 2016- Member, Faculty Development and Evaluation Committee
3. 2012-2015 Member, Research Committee UTSD
4. 2012-2014 Member, New Faculty Member (Craniofacial) Searching Committee, UTSD
5. 2011-2014 Member, New Faculty (Biomedical) Searching Committee, Department of Diagnostic and Biomedical Sciences, UTSD
6. 2010-2011: Member, Biomedical Science Ad Ho Committee, UTSD
7. 2010-2011: Dental Curriculum Competency mapping Committee
8. 09/01/2004-2009: Member, Faculty Appointment, Promotion and Tenure Committee.

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9. 2003-2004: Faculty Merit Review Committee, Department of Diagnostic Sciences
10. 2002-2003: Faculty Merit Review Committee, Department of Basic Science.
11. 07/01/2000-06/31/2002: Member, Research Committee
12. 02/01/2002-09/01/2003: Chair, Student Research Committee
13. 2002: Member, Searching Committee for Microbiologist, Department of Basic Science.

**GRADUATE SCHOOL OF BIOMEDICAL SCIENCE COMMITTEE:**

1. 07/01/2001-2005: Member, Curriculum Development Subcommittee, Reproductive Biology, Cell Biology Program
2. 2003-2006: Interviewer for the Admission Committee

**SPONSORSHIP OF MEDICAL/DENTAL STUDENTS:**

1. 2016 summer: Sponsor for Summer Research dental student
2. 2013 fall: Sponsor for Fall Research Elective **DBEB 5003** (Arsene Hanana)
3. 2013: Sponsor for Summer Research Program (Arsene Hanana)
4. 2007: Sponsor for Summer Research Program (Chad Longley, Christopher Dauterive)
5. 2006: Sponsor for Summer Research Program (Jonathan McEwen and Kenneth Sanberg)
6. 2005: Sponsor for Summer Research Program (Anh Bui)
7. 2004: Sponsor for Research Project (Jason Borillo, Baylor)
8. 2004: Sponsor for Summer Research Program (Claudia Guzman and Anh Bui)
9. 2002: Co-sponsor for Summer Research Program (Miss Ramichandra)

**SPONSORSHIP OF CANDIDATES FOR PREDOCTORAL OR MASTER DEGREES:**

1. 2008-2009: Sridhar Eswaran, Candidate for MS, University of Texas HSC at Houston
2. 2007-2008: Neal Horn. Candidate for MS, University of Texas HSC at Houston
3. 2006-2007: Victoria Mdoe. Rotation student, GSBS, University of Texas HSC at Houston
4. 2004-2009: Julie Robertson. Candidate for Ph.D., GSBS. University of

Houston Health Science Center at Houston.

5. 2005-2006: Fabian Hosein, DDS. Candidate for MS. University of Texas HSC at Houston

**SPONSORSHIP OF POSTDOCTORAL TRAINING:**

1. 2012-2015 April Ross, Ph.D. Epitope spreading in autoimmune glomerulonephritis.
2. 2010-2011 Yi Huang, MD. Ph.D. IL-33 in ovarian function.
3. 2010-2011 David Kagan, MD., Genetics of glomerular fibrosis in rat anti-GBM glomerulonephritis.
4. 2002-2005: Cindy Zhou, MD.Ph.D. Role of macrophages in ovarian functions (peer reviewed publications #1,3,4,5; presentations #7, 8; abstract #1).
5. 2002-2003: Gustavo Parra, MD. T cell abnormality in hypertension.
6. 2003-2004: Justin Merszei, MD. Role of OPN in crescentic lesion of glomerulonephritis. (Presentation in Renal Grand Round in Baylor, 04/2004, peer reviewed publication #5; presentation #1)
7. 1997-1998: Wei Sun, Ph.D., Bio-information Department, University of Virginia, Charlottesville, VA – ZP3 Contraceptive Vaccine, first author for 1 paper (peer reviewed publication #12)
8. 1996-1997: Kwan-Kyu Park, MD.Ph.D., Assistant professor, Medical School Keimyung University, Taegu, 700-310, South Korea - Antibody mediated T cell retargeting, co-author for 2 presentation (#14, 15) and 1 paper (peer reviewed publication #10)

**MENTOR FOR JUNIOR FACULTY:**

1. 2014-2016 Sponsor (R03) and mentor for Junichi Iwata (Grant 101, 2014), DBS, Ph.D., Assistant professor, Department of Diagnostic Sciences, University of Texas School of Dentistry at Houston
2. 2013-2014 Ransome van der Hoeven, Ph.D. Assistant professor, Department of Diagnostic Sciences, University of Texas School of Dentistry at Houston
3. 2008-2009: Diana Jalal, MD, Clinical Instructor, Renal Division, University of Texas Medical School at Houston.
4. 2004-2007: Horacio Adroque, MD, Assistant Professor, Renal Division, Baylor College of Medicine. .

### THESIS AND SUPERVISORY COMMITTEE FOR GRADUATE STUDENTS:

1. 07/2007-05/2008 Chair, Advisory Committee (DDS, MS) for **Sridhar Eswaran**, University of Texas HSC at Houston
2. 07/2006-06/2008 Chair, Advisory Committee (DDS, MS) for **Neal Horn**, University of Texas Health Science Center at Houston.
3. 07/2004-07/2009 Chair, Advisory Committee (PhD) for **Julie Robertson**. GSBS, University of Texas Health Science Center at Houston.
4. 10/2005-05/2007 Invited Ph.D. thesis examiner for **Joyce Eade**, Murdoch University, Perth, Western Australia, 6150, Australia
5. 03/2005-05/2006: Chair, Advisory Committee (MS program) for **Fabian Hosein, DDS**. Dental Branch, University of Texas Health Science Center at Houston.
6. 02/2004-2006 Member, Advisory Committee (PhD) for **Julia Javarone**. GSBS, University of Texas Health Science Center at Houston.
7. 03/2005-05/2006 Member, Advisory Committee (MS program) for **Jeff Dykes**, Dental Branch, University of Texas Health Science Center at Houston.
8. 02/2004-05/2005: Member, Advisory Committee (MS program) for **Kamrin Danial** and **George Olfert**, University of Texas Health Science Center at Houston.

### TEACHING ACTIVITIES:

#### Course director:

2009-2011: Undergraduate Course for Dental Students, University of Texas Houston:  
**DENF 1551: Microbiology and Immunology**

#### Lecturer:

2014- Postgraduate Course for Dental Residents: **DBPG0115: Advanced Basic Sciences II** 13 hours

2013- Undergraduate course for dental students, University of Texas Houston: **DENF 2705 Pathobiology** 20-25 hours

2013 Undergraduate Course for Dental Students, University of Texas Houston: **DENF 2701 General Pathology** 20 hours

2001-2011: Undergraduate Course for Dental Students, University of Texas Houston:



	<b>DENF 1551: Microbiology and Immunology</b>	20-26 hours
2004-2012:	Undergraduate Course for Dental Students, University of Texas Houston: <b>DENF 2702: General Pathology</b>	2 hours
2009:	Undergraduate Course for Medical students, University of Texas Medical School at Houston: <b>Immunology: Clinical Correlation III</b>	1 hour
2006-present:	Postgraduate Course for Dental Residents: <b>DBPG0115: Advanced Basic Sciences II</b>	13 hours
2007:	Microbiology: Immune Defense Mechanisms ( <b>GSBS</b> )	2 hour
2004-2006:	Interdisciplinary Biological Science Review: <b>DENU 2991</b> (Bacteriology)	2 hour
2004-2006:	Dental Hygiene Students, University of Texas Houston: <b>DHCT 2206: General Pathology</b> (immunology)	2 hours
2004-2005:	Graduate Courses for GSBS: <b>GS12 0083: Advanced Reproductive Biology</b> (Ovary)	8 hours
2001-2005:	Graduate Course for Dental Resident, University of Texas Houston: <b>DBPG 0502: Microbiology and Immunology</b> (bacteriology/autoimmunity)	2-16 hours
2000 Fall:	Graduate Courses for Dental Residents: <b>DBPG 0501: Oral Microbiology</b> (Diag. Microbiol., Head & Neck Infections)	4 hours
1996 Spring:	Graduate School, Immunology Program, the University of Virginia: <b>Autoimmune Diseases</b> (seminal)	6 hours

**\*Annual lecture hour summary:**

2004 (spring & fall)	54 hours
2005 (spring & fall)	53 hours
2006 (spring & fall)	44 hours
2007 (spring & fall)	43 hours
2008 (spring & fall)	33 hours
2009 (spring & fall)	35 hours
2010 (spring & fall)	30 hours
2011 (spring & fall)	30 hours
2012 (spring)	8 hours
2013 (spring & fall)	28 hours
2014 (Spring & fall)	28 hours
2015 (spring)	8 hours

**EXTRAMUAL GRANT SUPPORT:**

**A. Active**

- 1. P.I.** **Yahuan Lou**  
**Source support** NIH NIDDK 2R01 DK077857  
**Project title** A novel type of dendritic cell in prevention of glomerulonephritis  
**Specific aims:** To investigate a novel dendritic cell which terminates autoimmune tissue damage by inducing apoptosis in tissue –infiltrating auto-reactive T cells.  
**Annual direct costs/total** \$225,000 with total \$1,236,700  
**Period covered** 04/01/12 – 03/31/16  
**Role on project:** P.I.  
**% effort** 45%
- 2. P.I.** **Yahuan Lou**  
**Source support** NIH NIDDK 3R01DK077857-04A1S1  
**Project title** NIH Research Supplements for Under-represented Minorities  
**Costs of entire project** \$171,000  
**Period covered by award** 03/01/13-04/30/15  
**Role on project:** P.I.  
**% effort** 0%  
**Specific Aim:** provide an opportunity for Dr. April Ross to persuade a research career as an independent investigator. .

**B. Complete:**

- 1. P.I.** Sheikh-Hamad, MD  
**Source and identifying No.** NIH/NIDDK R01 DK080306  
**Project title:** Stanniocalcin-1, a novel anti-inflammatory protein  
**Specific Aims:** Using a mouse anti-GBM glomerulonephritis model, this study is to elucidate mechanism for anti-inflammatory function of stanniocalcin, with emphasis on macrophages  
**Period covered by award** 08/01/09-07/31/13  
**Role on project:** Significant Contributor  
**% effort** 0
- 2. P.I.** **Yahuan Lou**  
**Source support** NIH NIDDK R01 DK077857  
**Project title** A novel type of dendritic cell in prevention of glomerulonephritis

- Specific aims:** To investigate a novel dendritic cell which terminates autoimmune tissue damage by inducing apoptosis in tissue –infiltrating auto-reactive T cells.
- Annual direct costs/total** \$150,000/\$674,063  
**Period covered** 04/01/08-03/31/12  
**Role on project:** P.I.  
**% effort** 30%
3. **P.I.** **Yahuan Lou**  
**Source support** NIH NIHDCH R01 HD049613  
**Project title** CD8 $\alpha\alpha$ + Cells and Ovarian Functions  
**Specific Aim:** To investigate a novel leukocytes in ovaries its role in ovarian functions such as ovulation.  
**Annual direct costs/total** \$167,478/\$1,232,550  
**Period covered** 07/01/06-06/30/12  
**Role on project** P.I.  
**% effort** 30%
4. **P.I.** Frank Arnett, MD  
**Source and identifying no:** NIH P50 AR054144  
**Project title** Center Research Translation in Sclerodoma: Project 1 Functional Genomics Approach to Systemic Sclerosis Pathogenesis  
**Annual costs to my group:** \$48,955 (3<sup>rd</sup> year budget reduced) total \$199,775  
**Period covered by award** 09/01/06-08/31/10  
**Role on project:** Subcontract P.I.  
**% effort** 3%
5. **P.I.** **Yahuan Lou**  
**Source support** NIH NIDDK R01DK60029  
**Project title** Role of T cells in mediating glomerulonephritis  
**Annual direct cost/total** \$146,000/\$ 853,000  
**Period covered** 09/01/02-08/31/06  
**Role on project** P.I.  
**% effort** 40%  
**Specific Aim:** To investigate how antigen specific CD4 T cells initiate autoimmune anti-GBM GN, and how T cells target glomerular antigens.
6. **P.I.** **Yahuan Lou**  
**Source support** NIH NIDDK DK60029-03S1  
**Project title** NIH Research Supplements for Under-represented Minorities  
**Costs of entire project** \$98,380

- Period covered by award** 07/01/04-06/30/06  
**Role on project:** P.I.  
**% effort** 0%  
**Specific Aim:** provide an opportunity for Lisa Torres to persuade a medical research career.
7. **P.I.** **Yahuan Lou**  
**Source and identifying no.:** NIH NICDH R01HD35993  
**Title:** Autoantibody in T-cell mediated autoimmunity  
**Role on project:** P.I. (22%)  
**Total costs:** \$ 650,572  
**Period covered by award:** 02/01/99-01/30/05  
**Specific Aim:** To investigate role of autoantibody to zona pellucida in T cell mediated organ specific autoimmune ovarian disease. Autoimmune ovarian disease is a known cause for premature ovarian failure.
8. **P.I.:** K. Storthz  
**Source and identifying no.:** NIH DE015355-01 (UT-TORCH)  
**Project title:** Craniofacial-Oral Biology Research  
**Total direct costs:** \$ 145,800  
**Period covered by award:** 02/01/99-01/30/05  
**Role on project:** Sponsor for of Miss Julie Robertson (0%)
9. **P.I.** N. Vigneswaran  
**Source support** NIH R03 NIDCR  
**Project title** Role of cystatins in oral cancer metastasis  
**Specific Aim:** To test apoptotic pathway in cancer.  
**Annual direct costs** \$50,000  
**Period covered by award** 01/01/04-01/01/05  
**Role on project:** Co-P.I.  
**% effort** 5%
10. **P.I.** George Stancel  
**Source and identifying no.:** NIH 2-T32HD07324-16  
**Title:** Training Program in Mammalian Reproduction  
**Role on project:** Sponsor for Dr. Cindy Zhou (0%)  
**Dates and** 08/05/02-07/04/04  
**Direct costs** \$ 102,000  
**Specific Aim:** Provide post doctoral training in mammalian reproductive biology national wide.
11. **P.I.** **Yahuan Lou**  
**Source support** Depart. Med. Baylor College of Medicine

**Project title:** Minimal change disease: A disorder of cell mediated immunity (H. Adroque, MD)  
**Costs to my group** \$26,000  
**Period covered** 10/01/04-09/30/05  
**Role on project:** P.I.  
**% effort** 0%  
**Specific Aim:** To identify soluble molecules that damage podocytes and GBM.

12. **P.I.** Rudy Fulton, D.D.S.  
**Source and identifying no.:** CoQT  
**Title:** The effect of scaling and root planning, plus local application of Gingident compared to scaling and root planning alone  
**Role on project:** Co-Investigator (0%)  
**Dates and:** 09/01/02-08/31/04  
**total costs of entire project** \$ 7,680  
**Specific Aim:** To investigate whether a new dental product Gingident could improve inflammation when used in periodontal treatment.

### C. Submitted / Pending

1. **P.I.** **Yahuan Lou**  
**Source support** NIH NIA R01 GA048954  
**Project title** IL33 in ovarian tissue integrity and aging  
**Annual direct costs/** \$235,500  
**Period covered** unknown  
**Role on project:** P.I.  
**% effort** 30%  
**Status of the application** scored but not funded

2. **P.I.** **Yahuan Lou**  
**Source support** NIH NIDDK R01 090310  
**Project title** Osteopontin in glomerular fibrosis  
**Annual direct costs/** \$235,500  
**Period covered** 10/01/10-09/30/14  
**Role on project:** P.I.  
**% effort** 20%  
**Status of the application** unfunded

3. **P.I.** Filemon Tan  
**Source support** NIH R01AR055308  
**Project title** Anti-Fibrillin-1 in SSc-signal transduction pathway and ER stress

<b>Annual direct costs</b>	\$250,000
<b>Period covered</b>	04/01/07-05/31/12
<b>Role on project:</b>	Co-P.I.
<b>% effort</b>	10%
<b>Status of the application</b>	unfunded

**D. Involved training grants:**

- 1. NIH 2-T32 HD07324-16** *Training Program in Mammalian Reproduction*  
**P.I.** George Stancel, PhD  
**Role:** member, Stirring Committee; Sponsor for Cindy Zhou  
**Period Covered:** 2000-2007
- 2. NIH T32 DE015355-01** *Craniofacial-Oral Biology Research* from NIDCR. NIH (UT-TORCH)  
**P.I.:** K. Storthz  
**Role:** Sponsor for Julie Robertson  
**Period Covered:** 2003-2008
- 3. NIH T32, Pre-Post Doctoral Training in the Rheumatic Disease.** **P.I.:** J. Reveille, MD, 08/2007-07-2012  
**Role:** Sponsor.
- 4. NIH T32 HL007591-16** *Molecular and cellular mechanisms of heart disease*  
**P.I.** Heinrich Taegtmeyer, MD  
**Role:** Sponsor  
**Priority score:** pending
- 5. NIH NIDDK-Research Training In Renal Disease, Baylor College of Medicine.**  
**P.I.,** H. Lan, Ph.D.  
**Role:** Sponsor  
**Period Covered:** 2003-2007 (under renewal application)

**E. SUMMARY OF EXTRAMURAL FUNDING 1999-2016:**

1. Awarded R01 or other NIH as PI:	\$4,652,660
2. Other NIH grants as co-PI:	\$205,775
3. T32 grants:	\$211,350
3. Baylor:	\$26,000
4. Others:	\$6,000
<b>Total funding</b>	<b>\$5,101,785</b>
<b>Current annual total cost:</b>	<b>\$416,000/year</b>

**PRESENTATIONS (AFTER 1991):**

**a. Invited (selected)**

1. **Lou, Y.-H.** Interleukin33 is Critical for Controlling Tissue Oxidative Stress and Aging through Regulation of Disposal of Unwanted Cells. Speaker. *15<sup>th</sup> International Conference on Oxidative Stress Reduction, Redox Homeostasis & Antioxidants*. Pasture Institute, Paris, France, June 22-24, 2015
2. **Lou, YH.** IL33 in age-related neurodegenerative disease. Department of Psychiatry and Behavioral Sciences, UT Medical School at Houston. July 13, 2015
3. **Lou, YH.** Interleukin 33 – a master for tissue waste disposal? *Renal Division Department of Medicine, Baylor College of Medicine, Houston*, April 24, 2014
4. **Lou, YH.** A peripheral blood CD8 $\alpha\alpha$ +CD11c+MHC-II+ cell attenuates autoimmune glomerulonephritis in rats. Oral presentation. *9th International Congress on Autoimmunity*, Nice, France, March 26-30, 2014
5. **Lou, Y.-H.:** “PBMC CD8 $\alpha\alpha$ + dendritic cell: a candidate for cell-based therapy for autoimmune glomerulonephritis”, *Division of Nephrology, Department of Medicine, Baylor College of Medicine, Houston*. 05/30/2012
6. **Lou, Y.-H.:** “Osteopontin in glomerular fibrosis” *Division of Nephrology, Department of Medicine, Baylor College of Medicine, Houston*. 01/13/2010
7. **Lou, Y.-H.:** “Immune System in Pathology and Physiology” *Division of Rheumatology, Department of Internal Medicine, University of Texas Medical School at Houston*, 10/27/2009. *Research day UT- H*
8. **Lou, Y.-H.:** “Immune System in Pathology and Physiology” *Division of Rheumatology, Department of Internal Medicine, University of Texas Medical School at Houston*, 12/04/2008
9. **Lou, Y.-H.:** “A novel dendritic cells in T cell tolerance” *Division of Nephrology, Department of Medicine, Baylor College of Medicine, Houston*. 07/2008
10. **Lou, Y.-H.:** What did we learn from anti-GBM disease model?” *Mini Symposium on Inflammation, CCTS, NIH, Houston, May 16, 2008*
11. **Lou, Y.-H.:** A novel type of dendritic cell in prevention of autoimmune disease. *The second International Congress on Immune Mediated Diseases, Moscow, September 2007*
12. **Lou, Y.-H.,** Arend, J., J. Wu, L. Torres, and L. Troung: T cell epitope mimicry in anti-glomerular basement membrane disease. *ASN 38th Annual Renal Week Meeting*. 2005
13. **Lou, Y.-H.:** Anti-GBM glomerulonephritis is a T cell mediated disease. *International*

*Congress of Nephrology: Prevention of chronic renal disease and renal failure, Hong Kong, 06/28-07/01, 2004*

14. **Lou, Y.H.:** T cell mediated anti-GBM disease. *Division of Nephrology, Department of Medicine, Baylor College of Medicine, Houston. 2003*
15. **Lou, Y.H.:** ZP3: Autoimmunity and Contraceptive Vaccine. *International Symposium for Non-surgical Contraceptive Vaccine, Callaway Garden, 2002*
16. **Lou, Y.H.:** Ovarian Autoimmune Disease and Contraceptive Vaccine. *Center for Women's Health, Houston. 2001*
17. **Lou, Y.H.:** T cell retargeting: the role of autoantibody. *School of Medicine, Wright State University, Dayton, OH, 1998*
18. **Lou, Y.H.:** ZP3-based contraceptive vaccine. *National Institute of Family Plan (WHO Sponsored), Shanghai, China, 1997.*
19. **Lou, Y.H.:** What did we learn from ovarian autoimmune disease model? *Osteopathic Health University, Des Moines, IW, 1998.*
20. **Lou, Y.H.:** Mechanism of ZP3 antibody induced T cell retargeting. *NIH Contraceptive Development Centers Meeting, Davis, CA. 1997*
21. **Lou, Y.H.,** H. Bagvant, J. Ang, F. McElveen, H. Thai, K.S. Tung. Pathogenetic mechanisms of autoimmune ovarian disease and design of ZP3 peptide vaccine. *International Symposium on Prospects of Zona Pellucida Glycoproteins for Immunocontraception. New Delhi, India, 1995*
22. **Lou, Y.H.:** A short immunogenic peptide from murine ZP3 initiates autoantibody responses spreading to whole zona pellucida. *Sixth Annual Mid-Atlantic Reproductive Biology Meeting, Johns Hopkins University, Baltimore, MD. 1993.*
23. **Lou, Y.H.:** The nature of antibodies elicited by a vaccine peptide from mouse ZP3 and preliminary finding on the role of antibodies in autoimmune oophoritis. *NIH Contraceptive Vaccine Development Meeting, Simsbury, CT. 1992.*
24. **Lou, Y.H.,** Tung, K.S.K. Immunization of mice with an oophoritogenic peptide from murine ZP3 elicits autoantibody to ZP3 determinants outside the ZP3 peptide, *IX Ovarian Workshop. Chapel Hill, NC 1992.*

#### **B. Other Presentations (selected):**

1. Lisa Torres, Cindy Zhou, Horacio E. Adroque, and **Y.-H. Lou.** Coincident Activation of Th2 T Cells with Onset of the Disease and Differential Expression of GRO- $\gamma$  in Peripheral Blood Leukocytes in Minimal Change Disease. *American Medical Student Association Conference, Washington, DC. 2007. March.*



2. **Lou, YH.** A Novel CD8 $\alpha\alpha$ <sup>+</sup> dendritic cells in autoimmune glomerulonephritis. Oral presentation, *3<sup>rd</sup> International Symposium on Immune Mediated Diseases*. Moscow, Russia, September 16, 2007.
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9. Guzman, C., A. Bui, R. Fulton, and **Y.-H. Lou:** Antibody Specificity of IgA/G in Gingival Crevicular Fluid. *Hinman Student Research Symposium. 2004*
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11. C. Zhou, J. Borillo, J. Wu, and **Y.-H. Lou :** Ovarian leukocytes: subtypes and their potential roles. Society of Reproductive Immunology Annual Meeting, 2003
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13. Hicks, J., J. Wu, J. Borillo, R. Nichols, S.-H. Zhu, J. Barrish, **Y.H. Lou:** Glomerulonephritis induced by recombinant type 4 collagen specific T-cell transfer: Histopathologic and ultrastructural study. *Scientific Meeting, US and Canadian*

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## **B. PEER-REVIEWED PUBLICATIONS**

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2. Ross A, J Wu, C Carlock, W Glass II, and **Y Lou**. Inter-molecular epitope spreading does not lead to extension of inflammation beyond glomeruli in autoimmune glomerulonephritis. (under review) 2017
3. Wu, J., C. Carlock, A. Ross, J. Shim, and **Y. Lou**. CD8 $\alpha\alpha^+$ MHC-II<sup>+</sup> Cell with capacity to terminate autoimmune inflammation is a novel antigen-presenting NK-like cell in rats. *J. Immunol.* 197:4274-4282. 2016
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- through regulation of autophagy and macrophage migration. *J. Immunol.* 194:2140-2147. 2015. (Featured in ***In This Issue*** titled “IL33 helps crack of rotten eggs”).
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### **C. INVITED ARTICLES / CHAPTERS:**

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#### D. SUMMARY OF PUBLICATIONS IN REFERRED JOURNALS

	<i>Journal</i>	<i>impact factor</i>	<i>number of publication</i>
1.	J. Clin. Invest.	16.915	3
2.	J. Exp. Med.	15.612	1
3.	Curr. Opin. Immunol.	12.118	1
4.	Immunol. Rev.	10.536	1
5.	J. Am. Soc. Nephrol.	9.976	1
6.	J. Autoimmunity	7.368	2
7.	J. Immunol.	7.065	13
8.	Am. J. Pathol.	5.917	1
9.	Kid. Int.	5.672	3
10.	Dev. Biol.	5.313	1
11.	J. Leukoc. Biol.	4.627	1
12.	Biol. Reprod.	3.646	3
13.	Reproduction	3.455	1
14.	Am. J. Nephrol.	3.487	5
15.	J. Exp. Zool.	3.36	1
16.	PLos One	3.24	1
17.	Cell Tissue Res.	3.114	1

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18.	Immunology	2.835	1
19.	BMC Cancer	2.710	1
20.	J. Reprod. Immunol.	2.379	3
21.	Reprod. Fertil. Dev	2.109	1
22.	Mol. Reprod. Dev.	2.04	1
23.	Am. J. Reprod. Immunol.	2.088	2
24.	Comp. Physiol. Biochem. (B)	1.923	2
25.	J. Morphol.	1.71	1
26.	Others		6

**PATENT:**

Applicant: University of Virginia (494-128-27)

Inventor: Tung/Lou (50/50%)

Title: A tandem peptide containing B cell epitope of zona pellucida glycoprotein ZP3 and a promiscuous T cell epitope of a foreign protein to be used as antigen in a contraceptive vaccine for animal and human.